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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/828,843	04/21/2004	James A. Perkins	56527.C1/ C-3670.0	5307
	7590 02/12/2007 EELY & GRAHAM, P.C	EXAMINER		
P O BOX 1871			POPOVICS, ROBERT J	
KNOXVILLE, TN 37901			ART UNIT	PAPER NUMBER
	· .		1724	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	02/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	pplication No. Applicant(s)			
		10/828,843	PERKINS ET	AL.		
		Examiner	Art Unit			
		Robert J. Popovic				
Period fo	The MAILING DATE of this communication or Reply	appears on the cover	sheet with the correspondence	e address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication of period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the need patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS CO R 1.136(a). In no event, hower b. briod will apply and will expire S tatute, cause the application to	MMUNICATION.  ver, may a reply be timely filed  IX (6) MONTHS from the mailing date of the become ABANDONED (35 U.S.C. § 133)	his communication.		
Status						
1) 又	Responsive to communication(s) filed on 0	12 November 2006				
/—	· ·	This action is non-fina	1			
3)□	<i>'</i> —		the merits is			
ا (۵	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	ologica in adoctractico with the practice and	or Exparto Quayro, 1	000 0.5. 11, 100 0.0. 210.			
Disposit	ion of Claims					
4)⊠	Claim(s) 1,3-12,14 and 16-33 is/are pendir	ng in the application.				
	4a) Of the above claim(s) is/are with	drawn from considera	tion.			
5)🖂	Claim(s) 21-33 is/are allowed.					
6)⊠	Claim(s) 1,3-6,9-12,14 and 16-20 is/are rej	ected.				
7)⊠	Claim(s) 7 and 8 is/are objected to.					
8)[	Claim(s) are subject to restriction ar	nd/or election requiren	nent.			
Applicat	ion Papers					
9)[]	The specification is objected to by the Exan	niner.				
•	The drawing(s) filed on is/are: a)		ected to by the Examiner.			
/—	Applicant may not request that any objection to		•	a).		
	Replacement drawing sheet(s) including the co		-			
11)[	The oath or declaration is objected to by the	•	*	, ,		
Priority ι	under 35 U.S.C. § 119	·				
12)	Acknowledgment is made of a claim for fore	eign inriority under 35 l	U.S.C. & 119(a)-(d) or (f)	•		
	☐ All b)☐ Some * c)☐ None of:	sign priority andor oo	5.5.5. 3 1 15(a) (a) 51 (i).			
/-	1. Certified copies of the priority docum	ents have been recei	ved			
	2. Certified copies of the priority docum	•				
	3. Copies of the certified copies of the		• • • • • • • • • • • • • • • • • • • •			
	application from the International Bu	•				
* 5	See the attached detailed Office action for a	,				
		,				
Attachmen	t(s)					
_	e of References Cited (PTO-892)	4) 🔲 I	nterview Summary (PTO-413)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	)	Paper No(s)/Mail Date			
	mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	· <del>-</del>	Notice of Informal Patent Application Other:			
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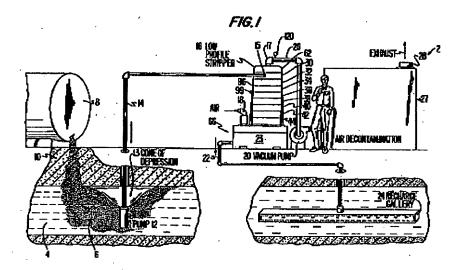
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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

Claims 1,3-6,9-12,14 and 16-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Rentschler (US 5,352,276).



As shown in Fig, 1, Rentschler discloses a water remediation system.

# From column 11 of Rentschler, beginning at line 5:

The system is particularly useful for decontamination of water contaminated with volatile organic compounds (VOC) which may be introduced to Found water through leakage of a storage tank or the like, as illustrated in FIG. 1. A typical example is a gas station from which VOCs have leaked into the **groundwater**. Chemical species that make up the contamination include gasoline components, e.g., **MTBE** (methyl tert-butyl ether) and the BTEX compounds (benzene, toluene, ethyl benzene and xylenes) as well as other water insoluble, high vapor pressure compounds.

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## Response to Arguments

Applicant's arguments filed **November 2**, **2006** have been fully considered but they are not persuasive. Applicants have argued, "Rentschler does not disclose or suggest the use of a dynamic venturi effect for stripping according to Applicant's claimed invention." This argument is not commensurate in scope with the claims that remain rejected in view of Rentschler. The stripper of Rentschler is in the process flowline, and hence, "inline." The claims do not specify a "venturi." Pipe 14 passes though an "orifice" in the sidewall of stripper 16, and as such, is seen to meet the limitations of the claims. As for Applicants' arguments urging that the tray stripper of Rentschler does not permit "concurrent flow," the claims only require that flow through the orifice be concurrent, and not concurrent through the whole stripper assembly. It is in Rentschler. The exiting of the extract of Rentschler through inlet 15 is seen to constitute "expanding," as the term is used by Applicants.

The functional recitations appearing in apparatus claims 12,14 and 16-20 are not seen to patentably distinguish these claims from Rentschler. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim.

### Allowable Subject Matter

Claims 21-33 are allowed.

Claim 7 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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## **Drawings**

The drawings are objected to because in Figure 1, the pump and two squares above it need reference numerals. In Fig. 2, it is unclear what the cross-hatched shape in the chamber 36 is intended to represent, and the flows into the air amplifier 34 need to be labeled with reference numerals. Is Fig. 4 a depiction of the "prior art?". Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### **Conclusion**

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to Robert J. Popovics at telephone number (571) 272-1164.

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Robert James Popovics Primary Examiner Art Unit 1724

